

FIG. 1

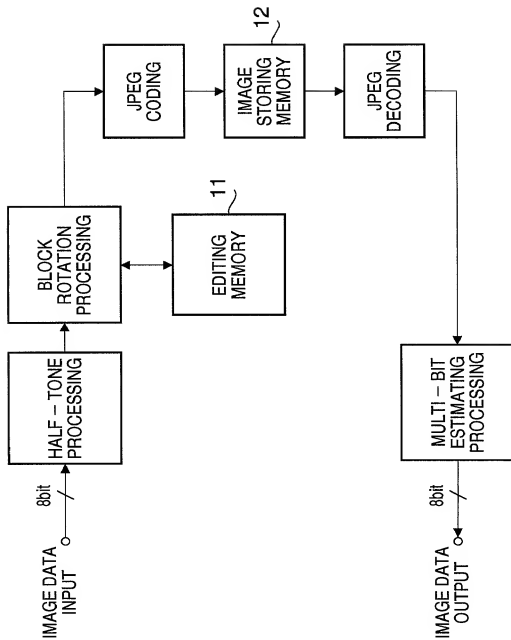


FIG. 2

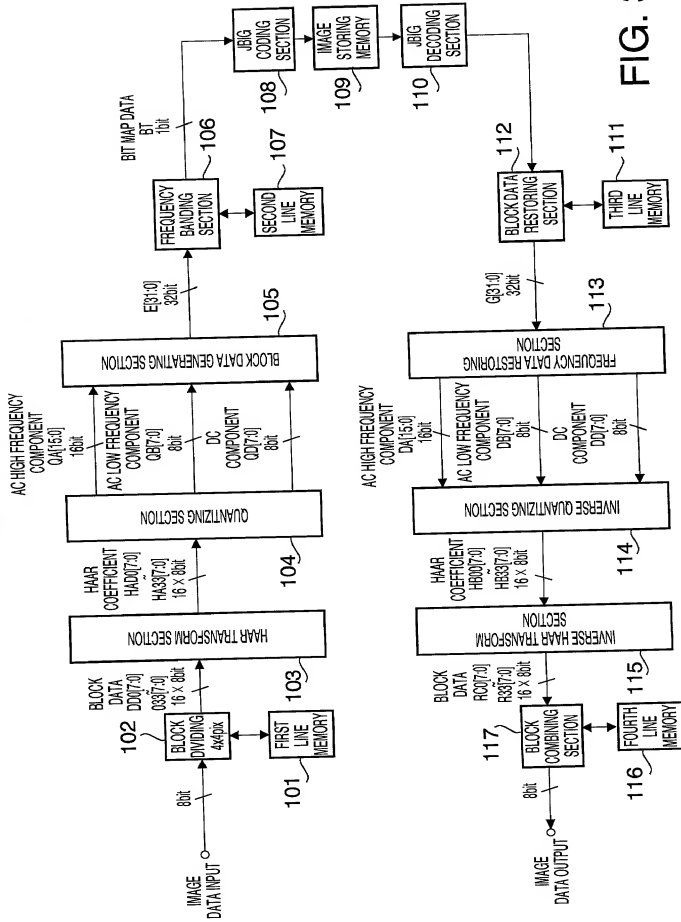
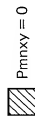
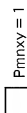
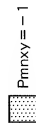


FIG. 3

PRIMARY PATTERN(P_{mnxy})
(MN ARE OMITTED IN THE FIGURE)



$m = 0$				$m = 1$				$m = 2$				$m = 3$			
P00 P0	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03
P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13
$n = 3$				$n = 2$				$n = 1$				$n = 0$			
P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23
P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33
P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03
P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13
P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23
P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33
P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03	P00 P01	P02 P03
P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13	P10 P11	P12 P13
P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23	P20 P21	P22 P23
P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33	P30 P31	P32 P33

FIG. 4

HA03 (AC600dpi COMPONENT)	HA13 (AC600dpi COMPONENT)	HA23 (AC600dpi COMPONENT)	HA33 (AC600dpi COMPONENT)
HA02 (AC600dpi COMPONENT)	HA12 (AC600dpi COMPONENT)	HA22 (AC600dpi COMPONENT)	HA32 (AC600dpi COMPONENT)
HA01 (AC300dpi COMPONENT)	HA11 (AC300dpi COMPONENT)	HA21 (AC600dpi COMPONENT)	HA31 (AC600dpi COMPONENT)
HA00 (DC COMPONENT)	HA10 (AC300dpi COMPONENT)	HA20 (AC600dpi COMPONENT)	HA30 (AC600dpi COMPONENT)

FIG. 5

HA03 (AC600dpi COMPONENT)	HA13 (AC600dpi COMPONENT)	HA23 (AC600dpi COMPONENT)	HA33 (AC600dpi COMPONENT)
HA02 (AC600dpi COMPONENT)	HA12 (AC600dpi COMPONENT)	HA22 (AC600dpi COMPONENT)	HA32 (AC600dpi COMPONENT)
HA01 (AC300dpi COMPONENT)	HA11 (AC300dpi COMPONENT)	HA21 (AC600dpi COMPONENT)	HA31 (AC600dpi COMPONENT)
HA00 (DC COMPONENT)	HA10 (AC300dpi COMPONENT)	HA20 (AC600dpi COMPONENT)	HA30 (AC600dpi COMPONENT)

TRANSFORM INTO DATA OF
PREDETERMINED NUMBER BITS WITH
EQUAL SLICE LEVELS DETERMINED BY
THE NUMBER OF QUANTIZED BITS

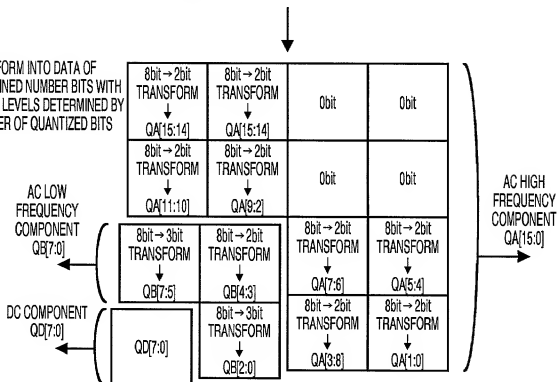
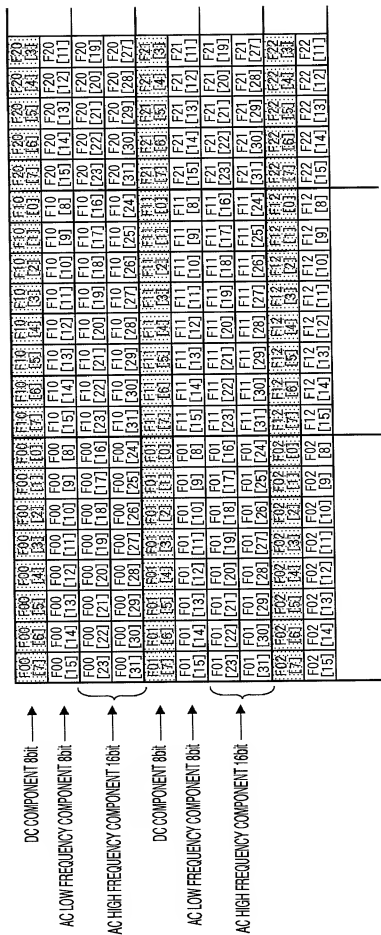
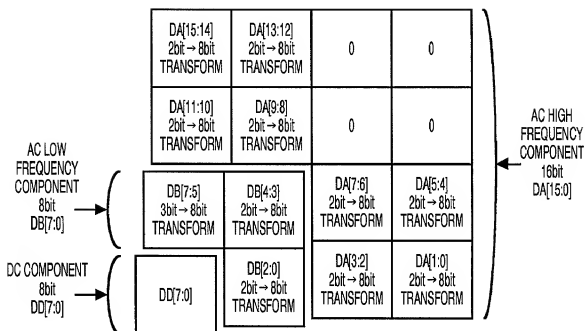


FIG. 6



BIT MAP PATTERN ARRANGEMENT



INVERSE QUANTIZATION PROCESSING

FIG. 9

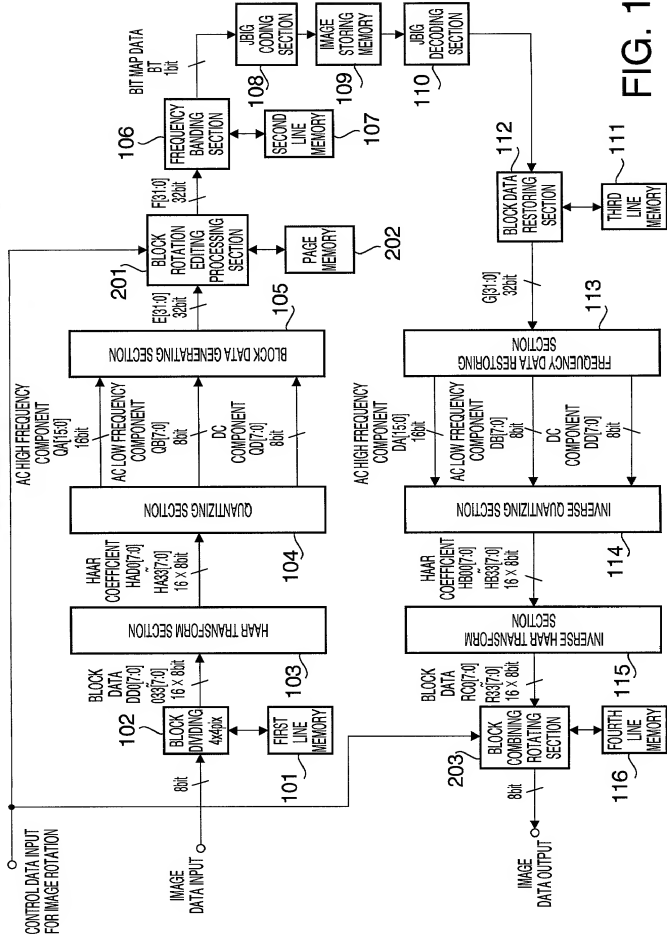


FIG. 10

PAGE MEMORY WRITE ORDER

E00	E10	E20	E30
F	F	F	F
E01	E11	E21	E31
F	F	F	F
E02	E12	E22	E32
F	F	F	F
E03	E13	E23	E33
F	F	F	F
E04	E14	E24	E34
F	F	F	F

PAGE MEMORY READ ORDER

$$F_{x,y}[31:0] = E_{3-y,x}[31:0]$$

COUNTERCLOCKWISE
90° ROTATION

E30	E31	E32	E33	E34
F	F	F	F	F
E20	E21	E22	E23	E24
F	F	F	F	F
E10	E11	E12	E13	E14
F	F	F	F	F
E00	E01	E02	E03	E04
F	F	F	F	F

NOTE) F IS INDICATIVE OF DIRECTION
OF IMAGE IN BLOCK

BLOCK ROTATION EDITING PROCESSING

FIG. 11

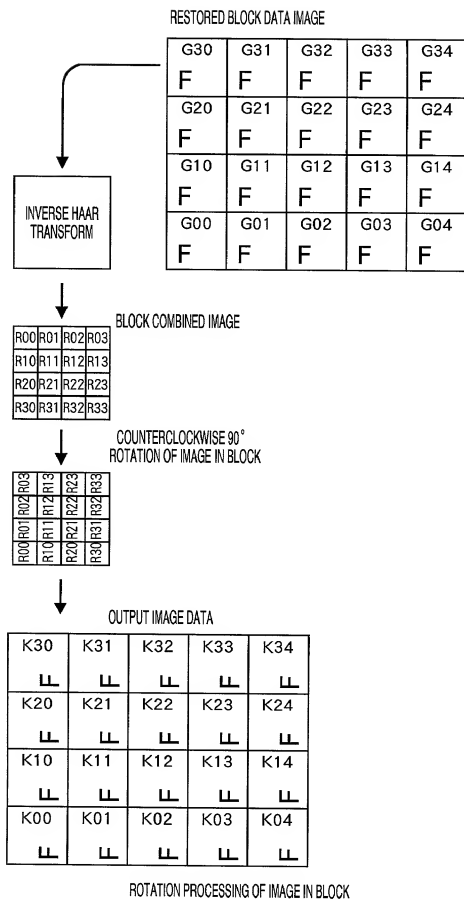


FIG. 12

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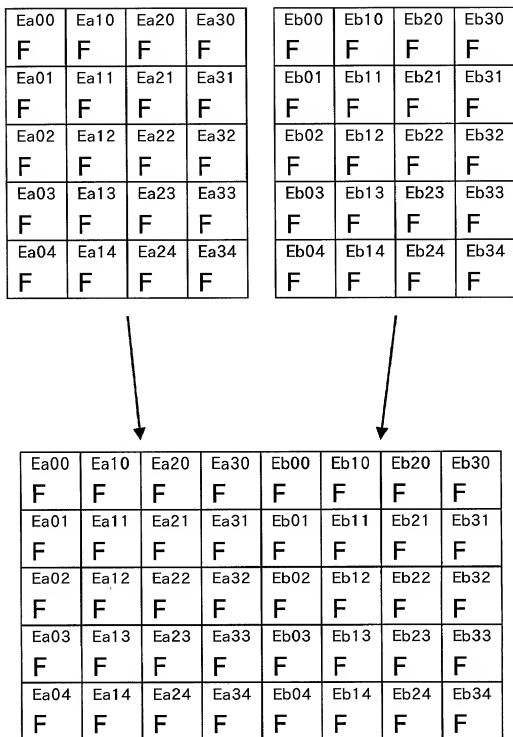


IMAGE COMBINING EDITING PROCESSING

FIG. 13

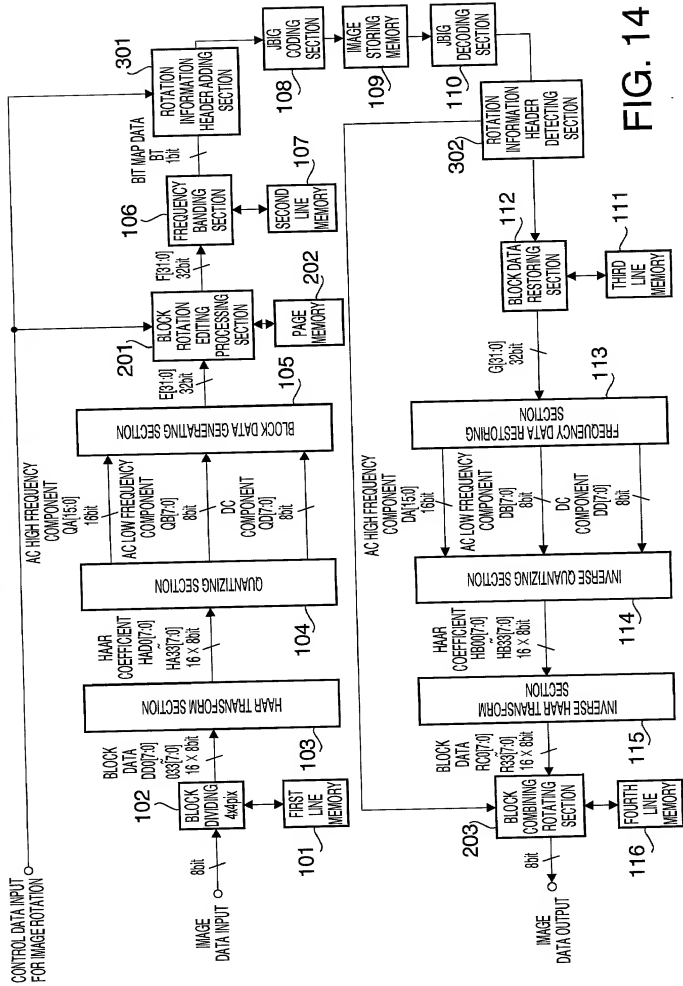


FIG. 14

